(54) Title: DIGITAL BROADCASTING SYSTEM AND DIGITAL BROADCAST TRANSMISSION AND RECEPTION METHOD
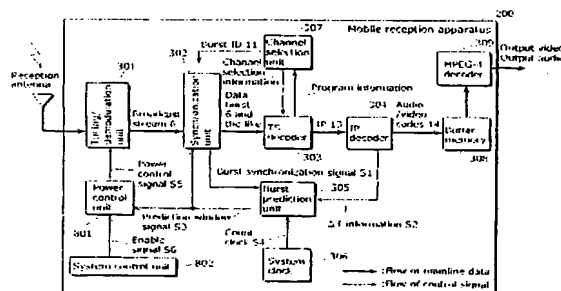
(57) Abstract: Digital broadcasting system for transmitting and receiving, via a network, a broadcast stream created from a broadcast source. It includes: a hierarchical coding unit (2) which codes the broadcast source and generates, from the coded broad cast source, a first layer code and a second layer code which can respectively be used for reproduction of the broadcast source; a synthesis unit (5) which generates data bursts, each of which includes the generated first layer code and second layer code; a multiplexing unit (7) which creates the broadcast stream by multiplexing the generated data bursts; a transmission unit (9) which transmits the created broadcast stream to the network; a tuning/demodulation unit (301) which receives the transmitted broadcast stream; a synchronizat The present invention is a digital broadcasting system for transmitting and receiving, via a network , a broadcast stream created from a broadcast source. The digital broadcasting system includes: a hierarchical coding unit (2) which codes the broadcast source depending on a characteristic of the broadcast source and generates, from the coded broadcast source, a first layer code and a second layer code which can respectively be used for reproduction of the broadcast source; a synthesis unit (5) which generates data bursts, each of which includes the generated first layer code* and second layer code; a multiplexing unit (7) which creates the broadcast stream by multiplexing the generated data bursts; a transmission unit (9) which transmits the created broadcast stream to the network; a tuning/demodulation unit 301) which receives the transmitted broadcast stream; a synchronization unit (302) which extracts, from the received broadcast stream, at least one of the firstlayer code and the second layer code; and a TS decoder (303) which reproduces the broadcast source using the extracted code.

ATTACHMENT F